



Thus ID = Km (VGS-VTW)2 Presionally we wrote a linear relationship between ID and Vos using linear wronit analysis. We can equate the two ex expressions of the ID as a function of Vos to obtain on equation in Vos. ID= VS = VG-VGS = Km (VG-VTN)2 3.6 - V6s = (0.5)(2) (V6s-0.8)2 3.6 - VGS = VGS - 1.6 VGS +0.64 VGS -0.6 VGS- 2-56=0 VGS = 0.6 ± V(0.6) + (4.296) = 0.6 ± 3.43 VGSQ = 2.045 V ID = VG-VGS = 3.6-2.046 = 0.777 mA , IDQ=0.777ml VDS = VDD - ID (RD+RS)=10-(0.772)(4+2)=534V VOSO = 5.34V Now we need to Tenify that our resumption of the transistor operating in Saturation was convert. VGS = VGS= = 2.046V > VTJ = 0.8V V V8.0-240.2 = KTV - 220 < C45. 2 = 204V V The B point has condinates VGSQ = 2.046V; VDSQ = 5.34V IDQ = 0.777mA

